

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/011713A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 198 016 A (LUMILEDS LIGHTING U.S., LLC) 17 April 2002 (2002-04-17)	1,5,6, 10-13, 22-26
Y	paragraph '0012! - paragraph '0023!; figures 1-4	2-4,7-9, 14-18
A		19-21, 27,28
X	US 2002/185965 A1 (COLLINS WILLIAM DAVID ET AL) 12 December 2002 (2002-12-12)	1,5,6, 10-13, 22-26
Y	paragraph '0016! - paragraph '0025!; figures 3-5	2-4,7-9, 14-18
A		19-21, 27,28
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## ° Special categories of cited documents :

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Date of the actual completion of the international search

6 April 2005

Date of mailing of the International search report

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 020 935 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD; MATSUSHITA ELECTRONICS CORP) 19 July 2000 (2000-07-19) paragraph '0047! - paragraph '0073!; figures 1a,3b -----	1,5,6, 10-13, 22-26
A	DE 44 22 660 A1 (MITSUBISHI KASEI CORP., TOKIO/TOKYO, JP) 9 February 1995 (1995-02-09) column 2, line 52 - column 5, line 45; figures 1,3 -----	2-4,7-9, 14-21, 27,28
Y	DE 100 39 435 A1 (OSRAM OPTO SEMICONDUCTORS GMBH & CO. OHG) 28 February 2002 (2002-02-28) paragraph '0057! - paragraph '0098!; figures 3,5-10 -----	14-18
Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 01, 29 January 1999 (1999-01-29) -& JP 10 270801 A (SHARP CORP), 9 October 1998 (1998-10-09) abstract -----	14-18

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Information on patent family members

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